CONTENTS

Volume 5, Issue Nos 1–6

PACKAGING TECHNOLOGY AND SCIENCE

VOLUME 5, ISSUE No. 1 January 1992

Editorial: F. A. Paine 1

New Package System for Fresh Berries: S. P. Singh 3

A Comparison of Leaf-spring with Air-cushion Trailer Suspensions in the Transport Environment: C. D. Pierce, S. P. Singh and G. Burgess 11

Accurate Determination of the Mean Relative Humidity in Controlled Climates at High Humidities (New Method): A. J. de Koeijer 17

Effect of Organic Vapour Interaction on Permeation Rate Through Polymer Films: E. Theodorou and J. S. Paik 21

Application of Ceramic-filled Polymeric Films for Packaging Fresh Produce: D.-S. Lee, P. E. Haggar and K. L. Yam 27

Tensile Properties of Cold-formable Aluminium–Plastics Laminate Films: P. N. Giannakakos and K. L. Yam 31

A Study of the Absorption of Fruit Juice Volatiles by the Sealant Layer in Flexible Packaging Containers (The effect of Package on Quality of Fruit Juice, Part IV): K. Yamada, K. Mita, K. Yoshida and T. Ishitani 41

Mass Transfer From and Through Packaging Materials: J. Miltz, N. Passy and C. H. Mannheim 49

A Performance Study for Two Portable Data Recorders used to Measure Package Drop Heights: L. K. Graesser, S. P. Singh and G. Burgess 57

VOLUME 5, ISSUE No. 2 March 1992

Editorial: F. A. Paine 63

Comment: C. Lauzon 65

Comment from France: M. Veaux and P. André 69

Comparison Between Lateral, Longitudinal, and Vertical Vibration Levels in Commercial Truck Shipments: S. P. Singh, J. R. Antle and G. G. Burgess 71

Testing of Aseptic Machines for Efficiency of Sterilization of Packaging Materials by Means of Hydrogen Peroxide: G. Cerny 77

Use of DCI-Platine Coupled to Gas Chromatography for Measuring the Transfer of Organic Vapours through Packaging Materials: S. D. Potey, M. Gravier and R. Benaim 83

Prevention of Browning of the Peel of Pears by Polyethylene Film Packaging: M. Furuta, S. Asano and S. Imai 91

The Effect of Microhole Size and Foodstuff on the Microbial Integrity of Aseptic Plastic Cups: R. Ahvenainen, T. Mattila-Sandholm 1, L. Axelson and G. Wirtanen. 101

Preservation of Freshness of Rainbow Trout Fillets Packaged with Carbon Dioxide–Nitrogen Gas Mixture (Studies on Gas-exchange Packaging of Fresh Fish, Part 2): M. Yasuda, H. Nishino, M. Tanaka, T. Chiba, H. Nakano, M. Yokoyama and S. Ogawa 109

Book Reviews 115

News Items from Around the World 117

Conference Reports 119

Dates for your Diary 123

VOLUME 5, ISSUE No. 3 May 1992

Editorial Comment: F. A. Paine 125

Water Sorption and Water Vapour Diffusion in Food-grade Plastics Packaging Materials: Effect of a Polymeric Plasticizer: P. J. Kalaouzis and P. G. Demertzis 133

Bruising of Apples in Four Different Packages Using Simulated Truck Vibration: S. P. Singh, G. Burgess and M. Xu 145

Conference Report—Packaging of Food 151

The Structure of the European Packaging Industry: C. H. Wendt 159

Irradiation of Food Packaging: L. Katan 165

News Items from Around the World 169

VOLUME 5, ISSUE No. 4 July 1992

Editorial: F. A. Paine 175

Effect of Load History on the Performance of Corrugated Fibreboard Boxes: J. A. Marcondes 179

Measurement of Ethylene Permeability of Plastic Films: L. Piergiovanni, M. Scolaro and P. Fava 189

Effects of Electron Beam Irradiation on Commercial Polypropylene: Kinetic Study of Antioxidant Degradation: F. Bourges, G. Bureau and B. Pascat 197

Effects of Electron Beam Irradiation on Antioxidants in Commercial Polyolefins: Determination and Quantification of Products Formed: F. Bourges, G. Bureau, J. Dumonceau and B. Pascat 205

Matching the Proof to Achieve Quality—Recent Developments: M. Scott-Taggart 211

Polystyrene Sheet Composition and Temperature as Parameters for Migration of Styrene Monomer into Corn Oil: J. P. H. Linssen, J. C. E. Reitsma and J. P. Roozen 217

Influence of Cartonboard Developments on Printing—A Review: M. J. Kirwan 223

News Items from Around the World 231

VOLUME 5, ISSUE No. 5 September 1992

Correction to 'Bruising of Apples in Four Different Packages Using Simulated Truck Vibration' by S. P. Singh, G. Burgess and M. Xu ii

Report on the National Safe Transit Association Annual Conference 1992: B. Parsons . . . 235

Total Package Performance Testing: L. C. Brana 237

Developments in European Packaging Standards and UN Testing: B. Parsons 243

Factors Affecting the Suitability of Aluminium-foil Trays for Microwave Oven Heating: Comparison with Plastic Trays: R. Ahvenainen and R.-L. Heiniö 255

Trends in Food Processing and Packaging Technologies: G. Pré 265

Prediction of Overpressure Required for Seal Integrity During Sterilization of Semi-rigid Food and Drug Packages: J. Zhang, C. H. Mannheim, S. G. Gilbert and C. Zheng 271

News Items from Around the World 281

Dates for your Diary 287

VOLUME 5, ISSUE No. 6 November 1992

Editorial Comment and Symposium Report 289

Oxygen Permeability at High Temperatures and Relative Humidities: L. Axelson-Larsson . . 297

Organoleptic and Migrational Properties of PP Films Produced with Various Amounts of Scrap: F. Lox, S. Van Dael and V. Machiels 307

The Effect of Packaging Materials and Oxygen on the Colour Stability of Sliced Bologna: J. A. Grini, O. Sørheim and H. Nissen 313

Bag-in-box Packaging for Wine: Analysis of Transport Stress in Barrier Films: H. A. Sundell, B. Holen, F. Nicolaysen, C. Hilton and Ø. Løkkeberg 321

News Items from Around the World 331

Author Index 334

Keyword Index 335